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PTO/SB/21 (09-04)

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TRANSMITTAL  
FORM

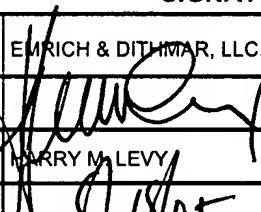
(to be used for all correspondence after initial filing)

		Application Number	10/648,052
		Filing Date	August 26, 2003
		First Named Inventor	Orlando Auciello
		Art Unit	1754
		Examiner Name	Colleen P. Cooke
Total Number of Pages in This Submission		Attorney Docket Number	ANL 273

## ENCLOSURES (Check all that apply)

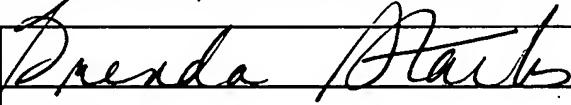
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below): return receipt postcard
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<input type="checkbox"/> Remarks		
<input type="checkbox"/> Certified Copy of Priority Document(s)		
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	EMRICH & DITHMAR, LLC.		
Signature			
Printed name	HARRY M. LEVY		
Date	8/19/05	Reg. No.	24248

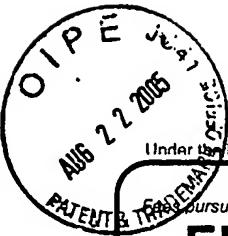
## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on 12/08/2004.  
Pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

# FEE TRANSMITTAL

## For FY 2005

 Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$)
 **180.00**
**Complete if Known**

Application Number	10/648,052
Filing Date	August 26, 2003
First Named Inventor	U. Balachandran et al.
Examiner Name	Colleen P. Cooke
Art Unit	1754
Attorney Docket No.	ANL 273

**METHOD OF PAYMENT** (check all that apply)

Check  Credit Card  Money Order  None  Other (please identify): \_\_\_\_\_  
 Deposit Account Deposit Account Number: 05-1060 Deposit Account Name: Emrich & Dithmar LLC.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  Charge fee(s) indicated below, except for the filing fee  
 Charge any additional fee(s) or underpayments of fee(s)  Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity	Fee (\$)	Small Entity	Fee (\$)	Small Entity	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**Fee Description

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Small Entity	Fee (\$)
- 20 or HP =	x	=			Fee (\$)	Fee (\$)
HP = highest number of total claims paid for, if greater than 20.					50	25
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)		200	100

- 3 or HP =                    x                    =                     
HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
<u>                  </u> - 100 = <u>                  </u> / 50 = <u>                  </u> (round up to a whole number) x <u>                  </u> = <u>                  </u> 0				

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): IDS filing fee: return receipt postcard180.000**SUBMITTED BY**

Signature 	Registration No. (Attorney/Agent) 24,248	Telephone 312-563-9800
Name (Print/Type) <u>HARRY M. LEVY</u>		Date <u>8/18/05</u>

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : U. Balachandran et al.  
Title : LAYERED STRUCTURE OF CU CONTAINING  
                  SUPERCONDUCTOR AND AG OR AG ALLOYS WITH CU  
Serial No. : 10/648,052  
Filed : August 26, 2003  
Docket No. : ANL 273  
Date : August 17, 2005

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**MAIL STOP DD**

Director for Patents  
U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Applicants undersigned attorneys, who prepared the above-identified application, are aware of the prior art references listed on the attached Form PTO-1449, which prior art references are relevant to said application. Copies of the prior art publications and enclosed.

The Commissioner is authorized to charge any additional fees or credit any overpayments incident to the filing of this Disclosure to Deposit Account No. 05-1060. A duplicate copy of this paper is enclosed.

Respectfully submitted,

08/23/2005 EAYALEW1 00000024 10648052

01 FC:1806

180.00 OP

**EMRICH & DITHMAR, LLC.**

Attorneys for Applicants

Suite 2080

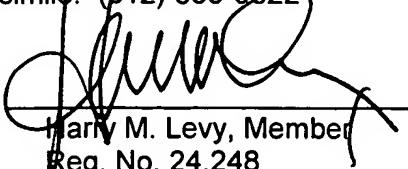
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Chicago, Illinois 60606

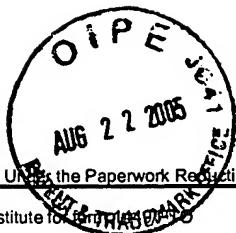
Telephone: (312) 663-9800

Facsimile: (312) 663-9822

By:

  
Harry M. Levy, Member  
Reg. No. 24,248

Date: 8/18/05



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Substitute for Form 1449 (04-07)

## Complete if Known

Application Number	10/648,052
Filing Date	August 26, 2003
First Named Inventor	U. Balachandran et al.
Art Unit	1754
Examiner Name	Colleen P. Cooke

Sheet 1 of 2 Attorney Docket Number ANL 273

NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		B.W. Kang, A. Goyal et al., Comparative Study of Thickness Dependence of Critical Current Density ..., J. Mater. Res. Vol. 17, No. 7, July 2002
		V.A. Maroni, K. Venkataraman et al., Nondestructive Analysis of Phase Evolution and Microstructure..., Physica C 382 (2002) 21-26
		R.M. Baurceanu, V.A. Maroni et al., Investigation of a Multi-Set-Point First Heat Treatment..., Supercond. Sci. Technol. 15 (2002) 1167-1175
		R.M. Baurceanu et al., Time Evolution of Phase Composition and Microstructure..., Supercond. Sci. Technol 15 (2002) 1160-1166
		Y.L. Tang, D.J. Miller et al., Improved Microstructure in Ag/Bi-2223..., Supercond. Sci. Technol. 15 (2002) 1-7
		J.H. Je, H. You et al., Detection of a Pd-Ni Interlayer at the Pd/Ni Interface..., Physica C 383 (2002) 241-246
		U. Balachandran et al., Development of High-Temperature Superconductors... , Abstract of Invited Keynote Talk at Brazilian Physical Soc., Recife, Brazil, Nov. 5-8, 2002
		U. Balachandran, B. Ma et al., Development of Coated Conductors by Inclined Substrate Deposition, Int. Sym. on Supercond., Japan 11/2002
		S. Tsukui, R.E. Koritala et al., Oxygen and Cation Diffusion in YBCO Coated Conductors, Physica C 392-396 (2003) 841-846
		B. Ma, M. Li et al., Pulsed Layer Deposition of YBCO Films on ISD MgO Buffered Metal Tapes, Supercond. Sci. Technol. 16 (2003) 464-472

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.  
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Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete If Known</b>	
				Application Number	10/648,052
				Filing Date	August 26, 2003
				First Named Inventor	U. Balachandran et al.
				Art Unit	1754
				Examiner Name	Colleen P. Cooke
Sheet	2	of	2	Attorney Docket Number	ANL 273

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T <sup>2</sup>
		M. Li, B. Ma et al., Pulsed Laser Deposition of c-axis Untilted YBCO Films on c-axis tilted ISD MgO Buffered Metallic Substrate, Physica C 387 (2003) 373-381				
		B. Ma, M. Li et al., Inclined Substrate Pulsed Laser Deposition..., Abstract from American Ceramic Society 105th Ann. Meeting & Exposition, Nashville, Tenn., April 27-30, 2003				
		P.S. Shanakar et al. Residual Stress Measurements in YBCO-Coated Conductors, Abstract at 105th Amer. Ceramic Soc. Mtg. Tenn. April 2003				
		Y.X. Zhou, M. Mironova et al., New Seeding Method for Texturing Y-Ba-Cu-O Bulk, 105th Ann. Meeting Amer. Cera. Soc. TN, April 2003				
		R.M. Baurceanu, S.E. Dorris et al., Copper Additions to Silver Substrates for YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> ..., Abstract at 105th Mtg. Expo. Amer. Ceramic Soc. 2003				

Examiner Signature		Date Considered	
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.